

- 1. The early atmosphere of Earth consisted of which elements?**
  - a. Oxygen and carbon dioxide
  - b. Argon and helium
  - c. Hydrogen and helium
  - d. Silicon and oxygen
- 2. Why did Carbon Dioxide rise in the early atmosphere?**
  - a. Production from organisms
  - b. Outgassing from volcanoes
  - c. Cosmic rain
  - d. Bovine belch
- 3. When did the Great Oxygenation Event occur, approximately?**
  - a. ~2.5 Billion years ago
  - b. ~2.5 Million years ago
  - c. ~25 Million years ago
  - d. A while ago
  - e. 3.5 Billion years ago
- 4. During the Cenozoic Era, paleosols (ancient soils) record a changing climate from:**
  - a. The climate warming and drying
  - b. The climate warming and wetting
  - c. The climate cooling and drying
  - d. The climate cooling and wetting
  - e. Stable global climate
- 5. This climactic change caused evolutionary changes in organisms (known as the Court-Jester Hypothesis), such as:**
  - a. Horse morphology shifting from small browsers to tall grazers
  - b. Hominid morphology shifting from long-arm primates to bi-pedal humans
  - c. Shrinking forests and expanding grasslands
  - d. All of the above
  - e. None of the above
- 6. Name two or more species within the *Homo* genus that we (*Homo sapiens*) overlapped with in time and space:**
  
  
  
  
  
  
  
  
  
  
- 7. After ~250,000 years of the *Homo sapiens* species spreading out of Africa and into the middle-east, Europe, Asia, and the Americas, a New-way of making a living developed. What was this 'revolution' that occurred ~10,000 years ago?**

8. This new technique has enabled population to soar, finally reaching 1 Billion humans ~11,800 years later (by ~1800 AD). How many people are on Earth today? How many years did it take to get here from 1 Billion? How many times faster has this growth been than the previous 11,800 years?
9. Define your concept of the Anthropocene. You may include the scientific reasoning, but this open-to-your-ideas question is a chance to show me your personal interpretation.
10. A \_\_\_\_\_ is a new rock type made from bits of plastic, a substance that became prolific on Earth in the 1950's.
- Plastirockerite
  - Plasticabole
  - Plastistone
  - Plastiglomerate
  - Plastosyrene
11. T / F Metallic resources are finite, but we seem to have enough to run civilization for another couple thousand years
12. T / F Fossil-Energy resources, such as Oil, Natural Gas, and Coal are also finite, but again we have enough of each to comfortably live this American lifestyle for another 1000's years or so.
13. T / F Peak resource is a myth; we have plenty of resources on Earth to not worry about doing without.
14. From estimates shown in class, if we (human population here) keep consuming oil this vigorously and we do not make new BIG discoveries we have about \_\_\_\_\_ left of petroleum.
- 1000 years
  - 500 years
  - 200 years
  - 100 years
  - 50 years
15. The \_\_\_\_\_ refers to an age that a planet enters in which there is a collective connected mind.
- Newozoic
  - Paleozoic
  - Pyschozoic